

DIDION Metal Polishing Drums



This revolutionary metal cleaning and polishing line provides a competitive advantage creating metals packages that are bright, polished, and clean to the touch. Leveraging DIDION's over 40 years of foundry expertise and WENDT's leadership in non-ferrous metals recovery facilities, the two companies have jointly developed a unique solution that addresses the rising expectations for higher product quality. The patented DIDION Metal Polishing Drum uses a rotary screen to tumble product, creating a metal-on-metal action that scrubs off surface contamination. The strong air flow produces an air wash effect removing liberated materials into a dust collector.

- Removes dust, surface contamination, and oxidation from metal
- Enriched metal concentrate has a higher melt yield
- Continuous process designed to hold and tumble materials for 15 to 20 minutes, allowing product cleaning
- Available in Standard and Sizing Drum configurations and can be sized for up to 10, 20, 30, and 40 TPH capacities
- Furnace operators can add an optional burner for quality control on moisture content

SURFACE CONTAMINATION IS THIN WITH SOME EXPOSED METAL



METALS ARE SUBSTANTIALLY CLEAN TO THE TOUCH



METALS HAVE A HIGHER REFLECTIVITY AND SHINE



CONTINUOUS PROCESS, LONGER DWELL TIME

TYPICAL INPUT

- MATERIAL MOISTURE CONTENT OF LESS THAN 1%
- PROCESS RUNS AT THE RATED TPH CAPACITY

RUN AT 100% RATED CAPACITY

- SURFACE DIRT AND CORROSION SUBSTANTIALLY REMOVED
- APPROXIMATELY 15 TO 20 MINUTES TIME IN THE DRUM

RUN UNTIL DESIRED POLISH IS ACHIEVED

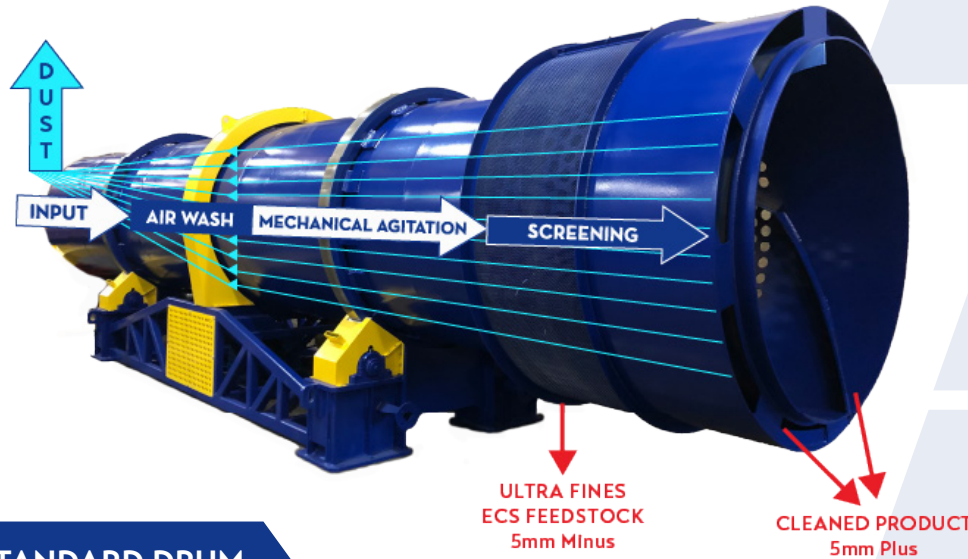
Materials with thicker layers of contamination can still be cleaned but require longer retention times and reduced throughput.



CONTAMINATED INPUT

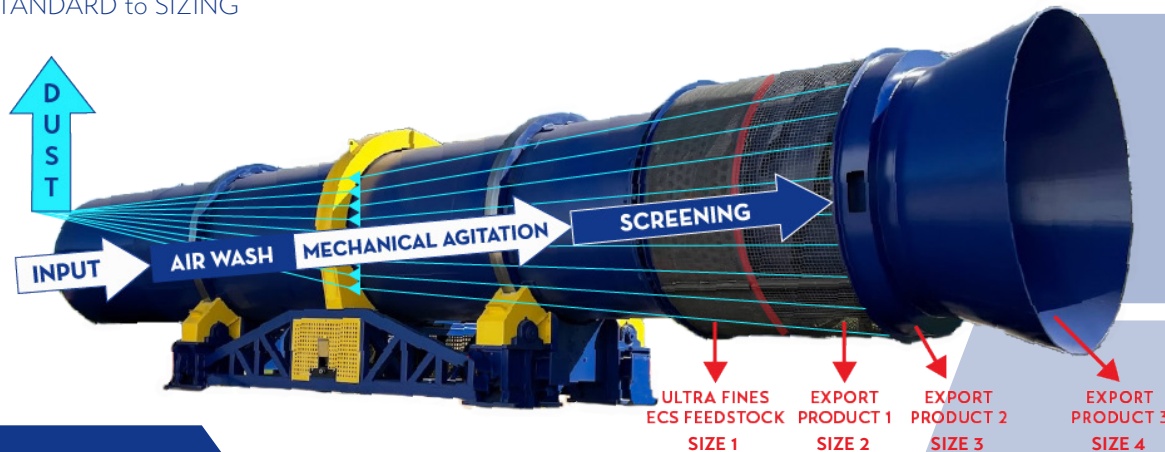


DIDION Metal Polishing Drums



STANDARD DRUM

- Ideally suited as preparation to an XRT plant feeding pre-sized materials
- Optional bolt flange can be added to allow future upgrade from STANDARD to SIZING



SIZING DRUM

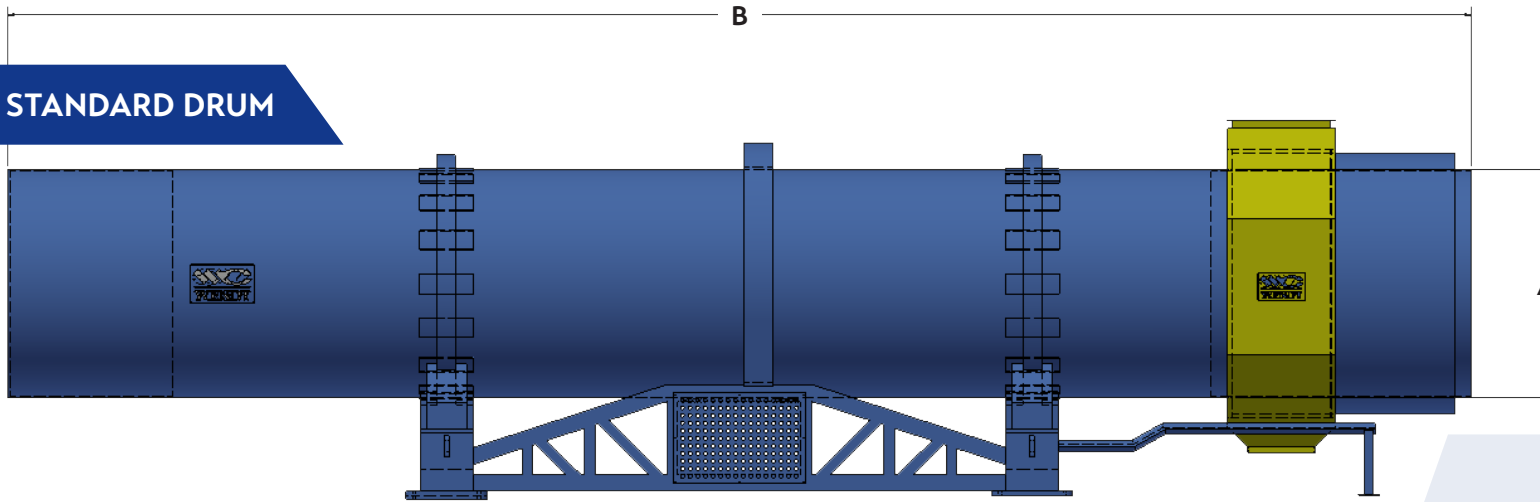
- Additional screening to create four sized products
- Ideally suited for larger processes with XRT and LIBS technologies
- Can also be configured for Chinese Export requirements
- Screen sizes are easily changed at any time

DIDION

DIDION Metal Polishing Drum Specifications

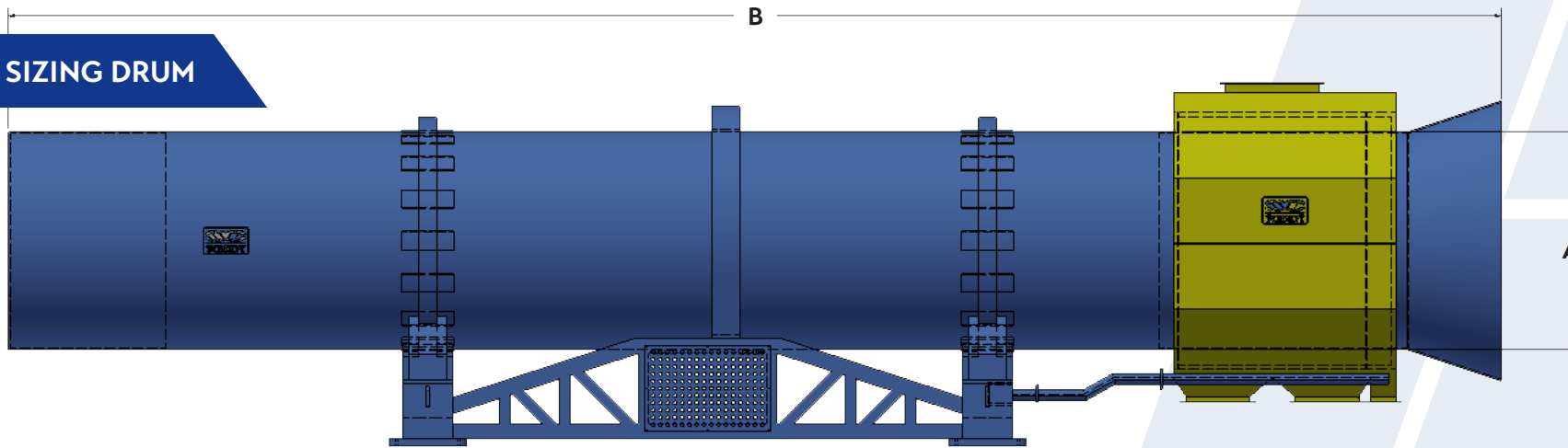


STANDARD DRUM



The Sizing Drum is 3 ft longer than the Standard Drum and offers sizing of the polished metals product.

SIZING DRUM

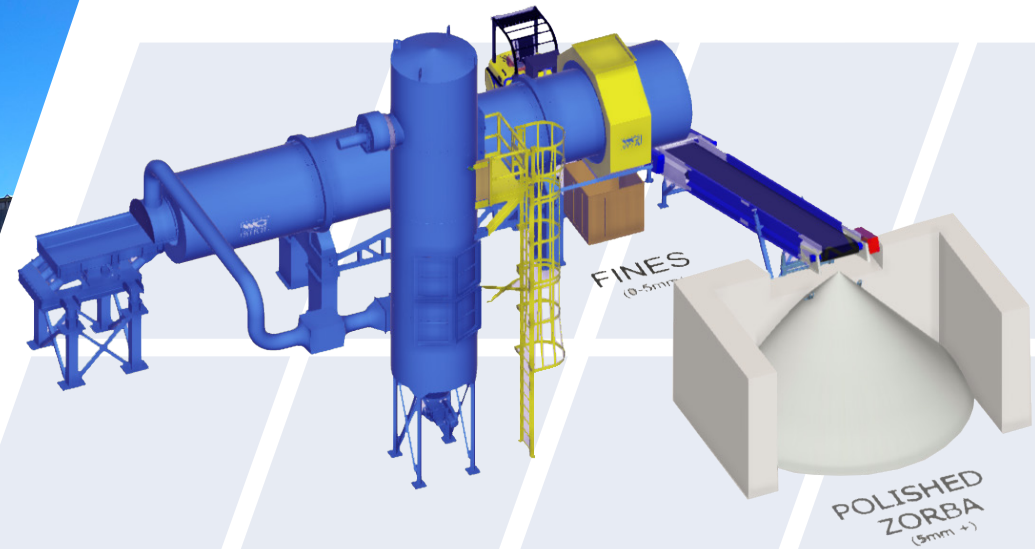


RS-Z POLISHER DRUM

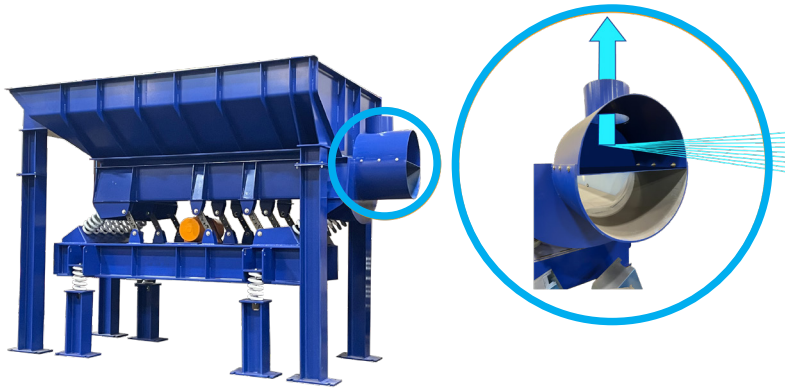
DUST COLLECTION

MODEL	RATING (TPH)	STANDARD DRUM DIMENSIONS (ft)		SIZING DRUM DIMENSIONS (ft)		HP	CFM RANGE
		A	B	A	B		
RS-200-Z	10	6	36	6	39	30	7,000 to 10,000
RS-250-Z	20	7	45	7	48	50	10,000 to 15,000
RS-300-Z	30	8	45	8	48	75	12,500 to 18,750
RS-400-Z	40	9	45	9	48	100	16,000 to 24,000

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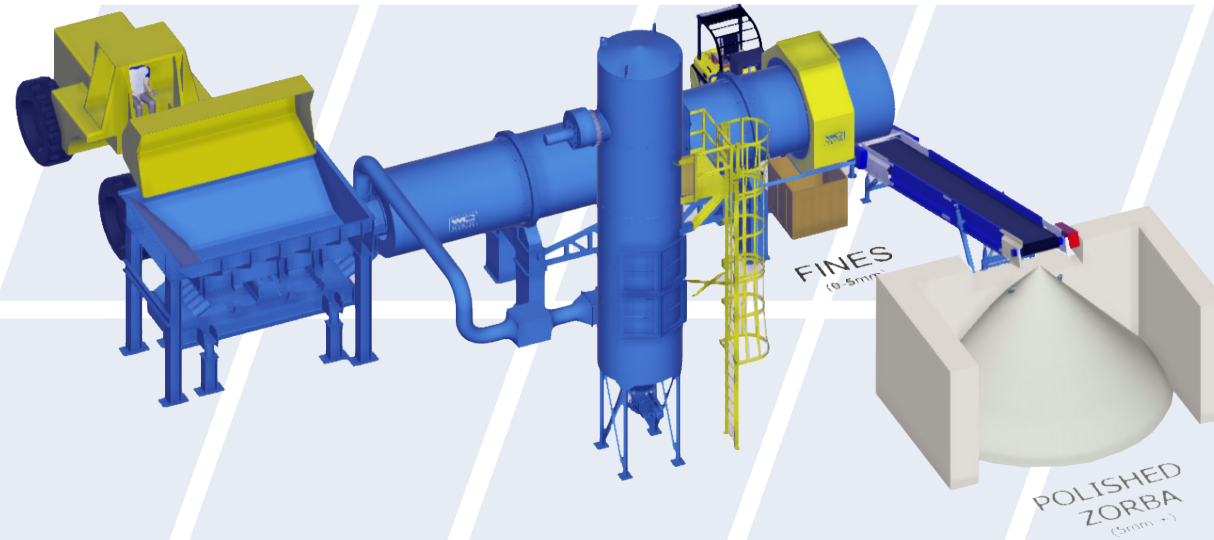


Standard Feeder to be fed by a conveyor belt



BATCH FEEDER

- Free standing 10 cubic yard hopper
- Extra heavy duty vibratory conveyor
- Isolation base to minimize dynamic loads
- Transition spout specifically designed to interface with a didion metal polishing drum



Batch Feeder CDC-40x16 with 10 Cubic Yard Hopper